

In the present invention, the substrate in the sample undergoes a specific enzyme reaction under the action of the dehydrogenase and the coenzyme contained in the reaction reagent to form a reduced coenzyme. Then a redox reaction quickly proceeds between this reduced coenzyme and the electron mediator and the tetrazolium salt, and a chemically stable formazan is formed as the final product. As the above mentioned series of reactions proceed, formazan is produced depending on the concentration of the substrate. Next, the formazan is electrochemically changed by applying a potential to the electrode system and the thus arising response current is detected. Since this response current occurring from the formazan depends on the substrate concentration, the substrate can be thus quantified. Fig. 5 roughly shows the process of a series of reactions as described above. Fig. 6 shows the fundamental structural formulae of the tetrazolium salt and the formazan formed as the final product.

#### IN THE CLAIMS

Please substitute the following amended claim for corresponding claim previously presented. A copy of the amended claim showing current revisions is attached.